

Appl. No.: 10/617,646
Art Unit: 3711 Docket No.: B03-49
Reply to Office Action of August 11, 2004

LISTING OF CLAIMS

Applicants have submitted a new complete claim set showing marked up claims with insertions indicated by underlining and deletions indicated by strikeouts and/or double bracketing.

Please delete claim 3 without prejudice.

Please amend pending claim 1 as noted below.

1. (Currently amended) A golf ball comprising:

(a) a core of ~~two or more layers~~ at least a first and second layer having an outer diameter of at least about 1.55 inches, the first layer comprised of an inner core layer and the second layer comprised of an outer core layer, the inner core layer comprised of a polybutadiene rubber and organosulfer compound;

(b) a cover layer having a flex modulus of less than about 20,000 psi; and

(c) a mantle layer disposed between the core and the cover;

wherein the mantle layer comprises a non-ionomeric, thermoplastic material, having a hardness of less than 60 Shore D and a resilience of greater than 34.

2. (Original) The golf ball of claim 1, wherein the mantle layer has a thickness from about .025 inches to about .125 inches.

3. (Canceled)

4. (Original) The golf ball of claim 1, wherein the mantle has a flex modulus of greater than about 45,000 psi.

5. (Original) The golf ball of claim 1, wherein the overall diameter of the finished ball is about 1.68 inches to about 1.80 inches.

6. (Original) A golf ball comprising:

a core of one or more layers having a compression of about 30 to 90;

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a cover of one or more layers; and

a mantle layer disposed between the core layer and the cover formed from a non-
ionomeric, thermoplastic elastomer and having a vicat point of greater than about 350° F and a
flexural modulus of at least about 45,000 psi.

7. (Original) The golf ball of claim 6, wherein the cover is comprised of a polyurethane or polyurea
based material.

8. (Original) The golf ball of claim 6, wherein the core is comprised of an inner core layer and an
outer core layer.

9. (Original) The golf ball of claim 6, wherein the mantle has a Shore D hardness of at least about
60.

10. (Original) The golf ball of claim 6, wherein the mantle layer has a thickness of less than about
0.1 inch.

11. (Original) The golf ball of claim 6, wherein the core has a diameter of at least about 1.55 inches.

12. (Original) The golf ball of claim 10, wherein the cover layer has a flex modulus of less than
about 20,000 psi.

13. (Original) The golf ball of claim 6, wherein the cover is comprised of an inner cover layer
having a thickness of about 0.005 and 0.06 inches and an outer cover layer having a thickness of
about 0.005 and 0.035.

14. (Original) The golf ball of claim 6, wherein the ball has a coefficient of restitution greater than
about 0.805.